

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
3 June 2004 (03.06.2004)

PCT

(10) International Publication Number
WO 2004/047000 A3

(51) International Patent Classification⁷: **G08B 1/08**

(21) International Application Number:
PCT/US2003/035458

(22) International Filing Date:
5 November 2003 (05.11.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/426,927 15 November 2002 (15.11.2002) US
60/475,554 3 June 2003 (03.06.2003) US

(71) Applicant: SENSITECH INC. [US/US]; 800 Cummings Center, Suite 258X, Beverly, MA 01915 (US).

(72) Inventors: SCHMIDTBERG, Rupert, A.; 18 Village View Road, Westford, MA 01886 (US). SCHULTZ, Eric, B.; 47B Sheffield Road, Boxford, MA 01921 (US).

(74) Agent: PRITZKER, Randy, J.; Wolf, Greenfield & Sacks, P.C., 600 Atlantic Avenue, Boston, MA 02110 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZW.

(84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

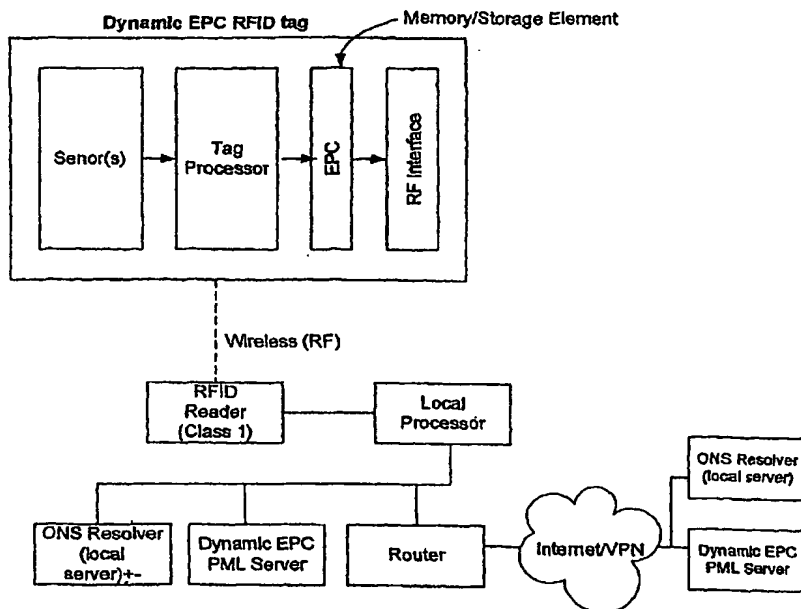
Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
16 June 2005

[Continued on next page]

(54) Title: RF IDENTIFICATION TAG FOR COMMUNICATING CONDITION INFORMATION ASSOCIATED WITH AN ITEM



(57) Abstract: An embodiment of the invention is directed to a radio-frequency (RF) identification tag configured to transmit at least one dynamic electronic product code (EPC) associated with at least one item, the at least one dynamic EPC configured to include at least one portion that is variable based at least in part on at least one detectable condition associated with the at least one item.

COPY



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No..

PCT/US03/35458

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G08B 1/08

US CL : 340/539.27, 572.1, 870.17, 005.9

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 340/539.27, 572.1, 870.17, 005.9, 572.2-572-8, 539.1; 235/383, 492

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,E — Y,E	US 6,712,276 B1 (ABALI et al.) 30 March 2004, col. 1, lines 41-46 and col. 3, lines 14-36, col. 3, lines 55-59.	1-8, 12, 13, 18-25 9-11, 14-17, 26-28
Y,E	US 6,681,990 B2 (VOGLER et al.) 27 January 2004, col. 3, lines 10-15.	9-11, 14-17, 26-28
A	US 5,798,694 A (REBER et al.) 25 August 1998, see entire document.	1-28
A	US 6,138,105 A (WALKER et al.) 24 October 2000, see entire document.	1-28
A,E	US 2004/0087273 A1 (PERTTILA et al.) 06 May 2004, see entire document.	1-28



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"B" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

24 March 2005 (24.03.2005)

Date of mailing of the international search report

11 APR 2005

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Kenneth Wieder

Telephone No. 703-305-4700

Rugenia Zagan